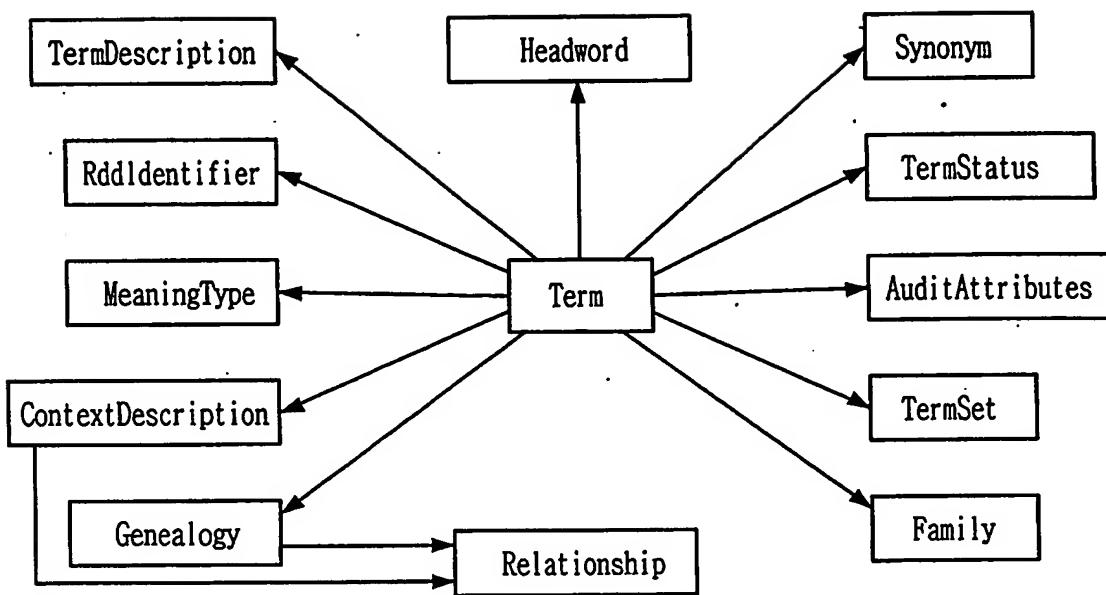


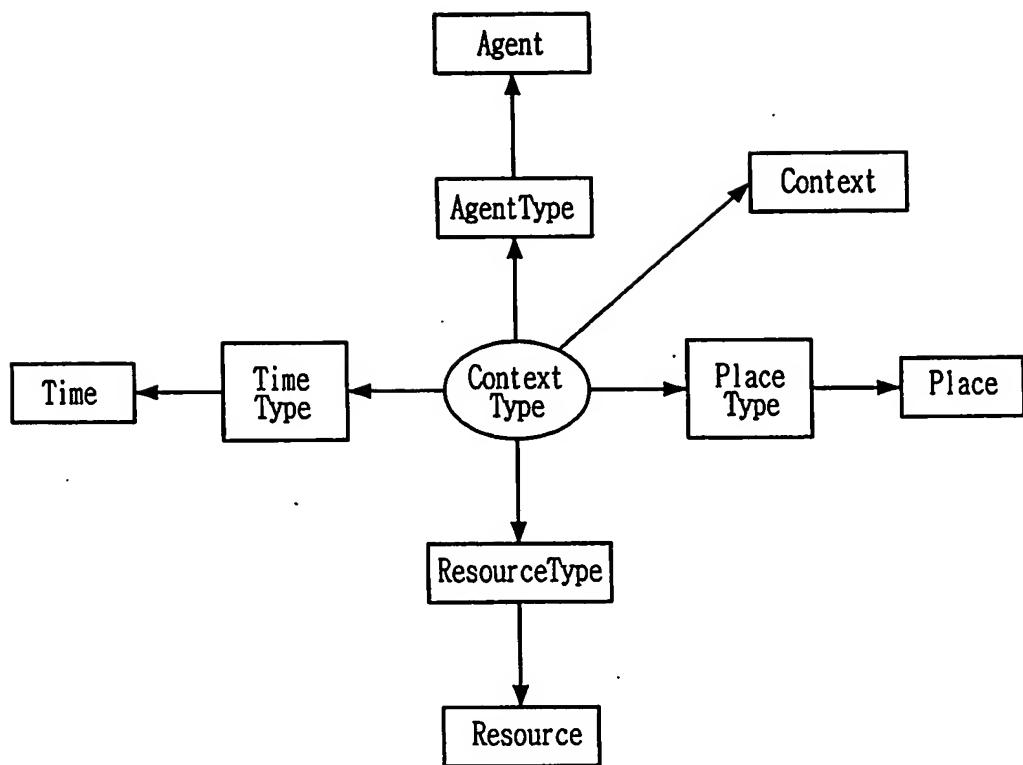
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FIG. 1



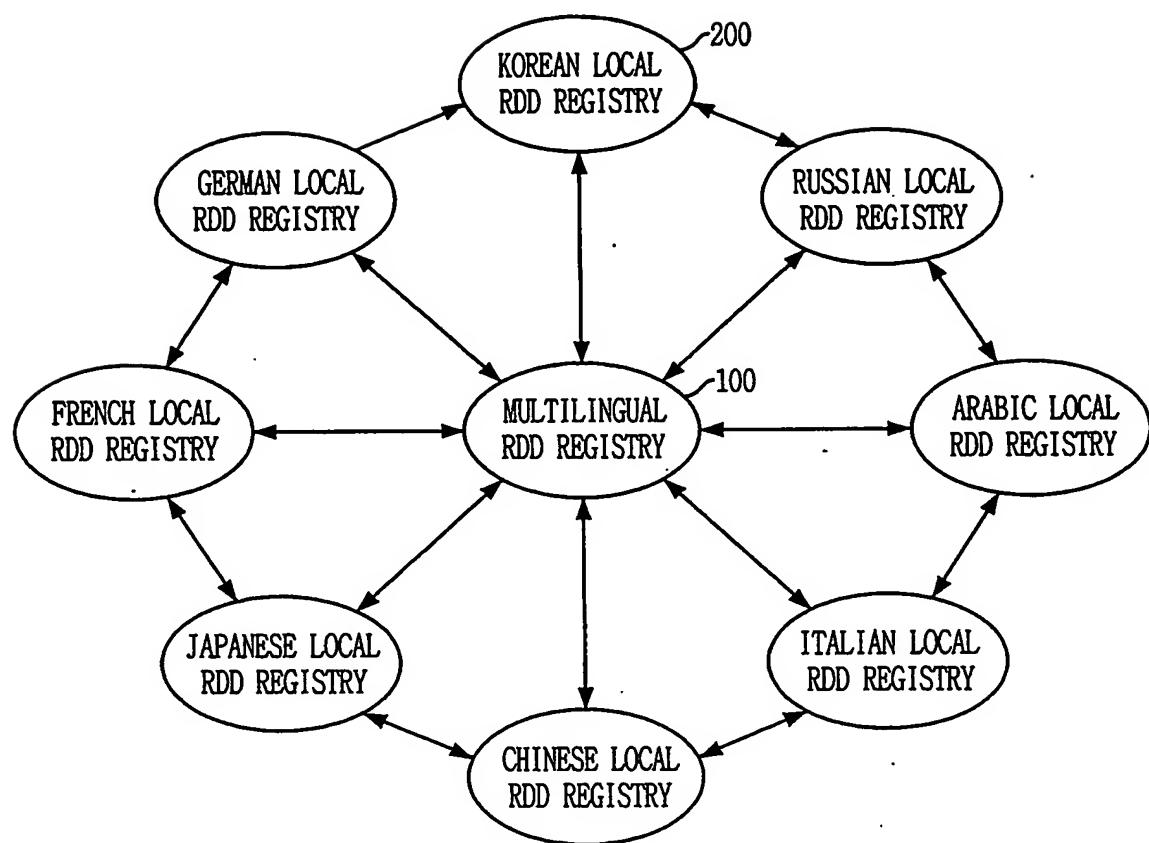
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FIG. 2



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FIG. 3



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FIG. 4A

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
ISO/IEC 21000-6 Rights Data Dictionary XML Schema Version 1.0
-->
<xs:schema targetNamespace="urn:mpeg:mpeg21:2003:07-RDD-NS"
xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:rdd="urn:mpeg:mpeg21:2003:0
7-RDD-NS">
  <xs:annotation>
    <xs:documentation>
      Rights Data Dictionary Registry version 1.0
    </xs:documentation>
  </xs:annotation>
  <xs:element name="Term" type="rdd:TermType">
    <xs:annotation>
      <xs:documentation>
        A Semantic element with a defined Meaning and an RddIdentifier
      </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="Headword" type="rdd:HeadwordType">
    <xs:annotation>
      <xs:documentation>
        The primary, human-readable Name of a Term according to its Authority
      </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="Authority" type="rdd:AuthorityType">
    <xs:annotation>
      <xs:documentation>
        An Agent responsible for Ascribing an Attribute to a Term or TermAttribute.
      </xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:schema>
```

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FIG. 4B

```
</xs:element>
<xs:element name="AuthorityID" type="xs:string">
<xs:annotation>
<xs:documentation>Identifier of Authority</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="TermStatus" type="rdd:TermStatusType">
<xs:annotation>
<xs:documentation>
A Status of a Term according to its TermAttributes.
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="RddIdentifier" type="xs:string">
<xs:annotation>
<xs:documentation>
The unique Idnetifier of a Term in the RDD ictionary
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="MeaningType" type="rdd:MeaningType">
<xs:annotation>
<xs:documentation>
An abstract element of significance represented in RDD by a Term
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="ContextDescription">
<xs:annotation>
<xs:documentation>
A Group of Relationships describing the attributes of a Context.
</xs:documentation>
```

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FIG. 4C

```
</xs:annotation>
<xs:complexType>
<xs:complexContent>
<xs:extension base="rdd:ContextDescriptionType"/>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="Genealogy">
<xs:annotation>
<xs:documentation>
A Group of Relationships that determine the derivation of, and constraints on,
Meaning for a Term, and which are true regardless of Context.
</xs:documentation>
</xs:annotation>
<xs:complexType>
<xs:complexContent>
<xs:extension base="rdd:GenealogyType"/>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="Comment">
<xs:annotation>
<xs:documentation>
A Natural language annotation of something for the purpose of amplification or
clarification of its Meaning.
</xs:documentation>
</xs:annotation>
<xs:complexType>
<xs:complexContent>
<xs:extension base="rdd:CommentType"/>
</xs:complexContent>
</xs:complexType>
```

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FIG. 4D

```
</xs:element>
<xs:element name="ActionFamily" type="rdd:ActionFamilyType">
<xs:annotation>
<xs:documentation>
A group of Relationships expressing the impact of an ActType as a set of one-to-one Relationships between its Agents, Resources, Times and Places.
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="ContextFamily" type="rdd:ContextFamilyType">
<xs:annotation>
<xs:documentation>
A Group of Relationships expressing the impact of a Type of Context as a set of one-to-one Relationships between a Type of Context and its Agents, Resource,Times and Places.
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="Audit" type="rdd:EventType">
<xs:annotation>
<xs:documentation>
A Set of attributes of an Event in the history of the Term or TermAttribute within the RDD Dictionary
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="Family" type="rdd:FamilyType">
<xs:annotation>
<xs:documentation>
A Group of Relationships that determine attribute inheritance from one Term to others according to the ContextModel
</xs:documentation>
```

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FIG. 4E

```
</xs:annotation>
</xs:element>
<xs:element name="Synonym">
<xs:annotation>
<xs:documentation>An alternative Name of a Term</xs:documentation>
</xs:annotation>
<xs:complexType>
<xs:complexContent>
<xs:extension base="rdd:SynonymType"/>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="AccessStatus" type="rdd:AccessStatusType">
<xs:annotation>
<xs:documentation>
A Status whose Value determines which RddUsers may have access to a Term
or TermAttribute.
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="TermDescription" type="rdd:TermDescriptionType">
<xs:annotation>
<xs:documentation>
A natural language Description of the Meaning of a Term.
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="Translation" type="rdd:TranslationType">
<xs:annotation>
<xs:documentation>Translation of a Heaword</xs:documentation>
</xs:annotation>
</xs:element>
```

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FIG. 4F

```
<xs:element name="TermSet" type="rdd:TermSetType">
  <xs:annotation>
    <xs:documentation>
      Two or more Terms or TermSets grouped together under an Authority for any
      purpose.
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Type" type="rdd:TypeType">
  <xs:annotation>
    <xs:documentation>The property of the headword.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Language">
  <xs:annotation>
    <xs:documentation>
      A Natural Language in which a Lexical Manifestation can be expressed.
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:complexType>
  <xs:simpleContent>
    <xs:extension base="xs:language">
      <xs:attribute name="scheme" default="iso639"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
</xs:element>
<xs:element name="AllowedValue" type="rdd:AllowedValueType"/>
<!--=====Complex Type=====-->
<xs:complexType name="HeadwordType">
  <xs:sequence>
    <xs:element name="HeadwordText" type="xs:string">
```

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FIG. 4G

```
<xs:annotation>
  <xs:documentation>An Instance of Headword</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element ref="rdd:TermDescription" minOccurs="0"/>
<xs:element ref="rdd:Audit" minOccurs="0"/>
<xs:element ref="rdd:AccessStatus"/>
<xs:element ref="rdd:RddIdentifier"/>
<xs:element ref="rdd:MeaningType"/>
<xs:element ref="rdd:ContextDescription" minOccurs="0"/>
<xs:element ref="rdd:Genealogy" minOccurs="0"/>
<xs:element ref="rdd:Family" minOccurs="0"/>
<xs:element ref="rdd:AllowedValue" minOccurs="0"/>
<xs:element ref="rdd:TermStatus"/>
<xs:element ref="rdd:TermSet" minOccurs="0"/>
<xs:element ref="rdd:Type" minOccurs="0"/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="SynonymType">
  <xs:sequence>
    <xs:element name="SynonymText" type="xs:string" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="CommentType">
  <xs:sequence maxOccurs="unbounded">
    <xs:element name="CommentTitle" type="xs:string"/>
    <xs:element name="CommentText" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="GenealogyType">
  <xs:sequence>
    <xs:element name="Has" type="xs:string" minOccurs="0"
```

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FIG. 4H

```
maxOccurs="unbounded"/>
  <xs:element      name="HasComponent"      type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="HasMember"        type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="HasValue"        type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="Is"              type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsA"             type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsAClassFromSet" type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsActTypeBegottenBy" type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsAgentTypeBegottenBy" type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsAllowedValueOf"   type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsAttributeOf"     type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsContextTypeBegottenBy" type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsEqualTo"        type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsExpressionOf"   type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsHistoricQualityOf" type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsIdentifierOf"   type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsNameOf"         type="xs:string"      minOccurs="0"
```

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FIG. 4I

```
maxOccurs="unbounded"/>
  <xs:element      name="IsOpposedTo"      type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsPartOf"        type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsPlaceTypeBegottenBy"  type="xs:string"  minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsPotentialQualityOf"  type="xs:string"  minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsPresentQualityOf"    type="xs:string"  minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsQualityTypeBegottenBy" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsReciprocalOf"       type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsRelatingTermBegottenBy" type="xs:string"  minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsRelatingTermFrom"    type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="IsRelatingTermTo"      type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="Is ResourceTypeBegottenBy" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="Is StateTypeBegottenBy" type="xs:string"  minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="Is StatusOf"        type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="Is TimeTypeBegottenBy" type="xs:string"  minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element      name="Is TypeOf"        type="xs:string"      minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>
```

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FIG. 4J

```
</xs:complexType>
<xs:complexType name="ContextDescriptionType">
  <xs:sequence>
    <xs:element name="HasActType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="HasAgentType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="HasPlaceType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="HasResourceType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="HasStateType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="HasTimeType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ActionFamilyType">
  <xs:sequence>
    <xs:element name="BegetsAgentType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="BegetsContextType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="BegetsPlaceType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="BegetsResourceType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="BegetsTimeType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="BegetsRelatingTerm" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
  </xs:sequence>
```

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FIG. 4K

```
</xs:complexType>
<xs:complexType name="ContextFamilyType">
<xs:sequence>
<xs:element name="BegetsActType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="BegetsAgentType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="BegetsPlaceType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="BegetsQualityType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="BegetsRelatingTerm" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="Begets ResourceType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="BegetsStateType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="BegetsTimeType" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="AllowedValueType">
<xs:sequence>
<xs:element name="HasAllowedValue" type="xs:string"
maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="TermDescriptionType">
<xs:sequence>
<xs:element name="Definition" maxOccurs="unbounded">
<xs:annotation>
<xs:documentation>
```

FIG. 4L

A TermDescription according to formal rules.</xs:documentation>

```
</xs:annotation> .
<xs:complexType>
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="DefinitionType">
        <xs:simpleType>
          <xs:restriction base="xs:QName">
            <xs:enumeration value="Definition"/>
            <xs:enumeration value="RddDefinition"/>
            <xs:enumeration value="AdoptedDefinition"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
</xs:element>
<xs:element      name="Example"      type="xs:string"      minOccurs="0"
maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>
      An Instance of usage illustrating the Meaning of a Term
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element ref="rdd:Language"/>
<xs:element ref="rdd:Comment" minOccurs="0"/>
<xs:element ref="rdd:Synonym" minOccurs="0"/>
<xs:element ref="rdd:Translation" minOccurs="0"/>
</xs:sequence>
</xs:complexType>
```

FIG. 4M

```
<xs:complexType name="TermType">
  <xs:sequence>
    <xs:element ref="rdd:Authority"/>
    <xs:element ref="rdd:Headword" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="AuditType">
  <xs:sequence>
    <xs:element name="Date" type="xs:date"/>
    <xs:element name="ActType" type="rdd:AuditActType"/>
    <xs:element ref="rdd:AuthorityID"/>
    <xs:element name="AuditReason" type="xs:string"/>
    <xs:element name="AuditComment" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="FamilyType">
  <xs:choice maxOccurs="unbounded">
    <xs:element ref="rdd:ActionFamily" minOccurs="0"/>
    <xs:element ref="rdd:ContextFamily" minOccurs="0"/>
  </xs:choice>
</xs:complexType>
<xs:complexType name="PersonType">
  <xs:sequence>
    <xs:element name="FirstName" type="xs:string"/>
    <xs:element name="LastName" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ContactType">
  <xs:sequence>
    <xs:element name="PersonName" type="xs:string"/>
    <xs:element name="Email" type="xs:string"/>
    <xs:element name="Telephone" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

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FIG. 4N

```
<xs:element name="Fax" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="AuthorityType">
<xs:sequence>
<xs:element ref="rdd:AuthorityID"/>
<xs:element name="AuthorityName"/>
<xs:element name="Contact" type="rdd:ContactType"/>
<xs:element name="Address" type="rdd:AddressType"/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="TranslationType">
<xs:sequence>
<xs:element name="IsTranslationOf" type="xs:string"/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="TermSetType">
<xs:sequence>
<xs:element name="TermSetName" type="xs:string">
<xs:annotation>
<xs:documentation>REL Termset, BCD Termset, XYZ
TermSet.....</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element ref="rdd:AuthorityID"/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="TypeType">
<xs:sequence>
<xs:element name="HasType" type="xs:string" maxOccurs="unbounded">
<xs:annotation>
<xs:documentation>Has only HasType</xs:documentation>
```

FIG. 40

```
</xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="AddressType">
<xs:sequence>
<xs:element name="URL" type="xs:anyURI"/>
<xs:element name="PostalCode" type="xs:string"/>
<xs:element name="Street"/>
<xs:element name="City"/>
<xs:element name="ProvinceState"/>
<xs:element name="Country"/>
</xs:sequence>
</xs:complexType>
<!--=====Simple Type=====-->
<xs:simpleType name="TermStatusType">
<xs:union>
<xs:simpleType>
<xs:restriction base="xs:Name">
<xs:enumeration value="StandardizedTerm"/>
<xs:enumeration value="NativeTerm"/>
<xs:enumeration value="AdoptedTerm"/>
<xs:enumeration value="MappedTerm"/>
<xs:enumeration value="IsolatedTerm"/>
</xs:restriction>
</xs:simpleType>
</xs:union>
</xs:simpleType>
<xs:simpleType name="AuditActType">
<xs:restriction base="xs:string">
<xs:enumeration value="Create"/>
<xs:enumeration value="Modify"/>
```

FIG. 4P

```
<xs:enumeration value="Delete"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="MeaningType">
  <xs:union>
    <xs:simpleType>
      <xs:restriction base="xs:Name">
        <xs:enumeration value="Original"/>
        <xs:enumeration value="PartlyDerived"/>
        <xs:enumeration value="Derived"/>
        <xs:enumeration value="Axiomatic"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>
<xs:simpleType name="AccessStatusType">
  <xs:union>
    <xs:simpleType>
      <xs:restriction base="xs:Name">
        <xs:enumeration value="OpenAccess"/>
        <xs:enumeration value="RestrictedAccess"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>
</xs:schema>
```

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FIG. 5

```
<?xml version="1.0" encoding="UTF-8"?>
<Term ID="23">
    <Headword> 적용시키다 </Headword>
    <Definition> 새로운 자원을 생성할 수 있도록 자원에 변경을 가하는
    것 </Definition>
    <Authority>urn:mpeg21:2003:07-RDD-NS-KOR</Authority>
    ...
    <Comment> 최종 결과 두 개의 독립된 자원이 생성되며, 하나의 자원이 생성되는
    경우에는 Adapt 가 아니라 Modify 임 </Comment>
    <Genealogy Type="IsTypeOf">Derive</Genealogy>
    <ActionFamily>
        <ActionType Type="BegetsContextType">적용_이벤트</ActionType>
        <ActionType Type="BegetsAgentType">적용자</ActionType>
        <ActionType Type="BegetsResourceType">적용</ActionType>
        <ActionType Type="BegetsResourceType">적용_의_원본</ActionType>
        <ActionType Type="BegetsResourceType">적용_도구</ActionType>
        <ActionType Type="BegetsTimeType">적용_시간</ActionType>
        <ActionType Type="BegetsPlaceType">적용_장소</ActionType>
    </ActionFamily> ..
</Term>
```

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FIG. 6

